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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/789,526	02/26/2004	Kenneth W. Dobie	BIOL0002US	9932
55389 KNORRE MA	7590 01/09/2008 ARTENS, OLSON & BEA	EXAMINER		
2040 MAIN S	TREET	EPPS FORD, JANET L		
FOURTEENTH FLOOR IRVINE, CA 92614			ART UNIT	PAPER NUMBER
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			MAIL DATE	DELIVERY MODE
			01/09/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

## DOBIG ET AL. Examiner	<u> </u>						
## Examiner Janet L. Epops-Ford 1633 ## The MAILING DATE of this communication appears on the cover sheet with the correspondence address **Period for Reply** A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. **Extensions of time rays be available under the provisions of 37 CFR 1.136(a). In no event, however, may a rayby be timely filled in 100 certs a secretic date to the provision of 37 CFR 1.136(a). In no event, however, may a rayby be timely filled in 100 certs a secretic date than three monitors and statistics provided single and via leops tick (of MONTH's from the maining date of this communication, 100 certs a secretic date than three monitors after the relating date of this communication, even if timely filled, may reduce any exercise planter term significant. See 37 CFR 1.74(b). ### See 37 CFR 1.74(b). ### See 37 CFR 1.74(c). ###	Office Action Summary		Application No.	Applicant(s)			
Janel L. Epps-Ford 1633			10/789,526	DOBIE ET AL.			
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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 9-27-07

Thas been withdrawn pursuant to 37 or 10 10 11.114. Applicant's submission flied on 3-27-07

has been entered.

2. Claims 1, 4-7, 9, 13, 20-23, 46-47, 50, 52-62, and 66-73 are pending for

examination.

3. The text of those sections of Title 35, U.S. Code not included in this action can

be found in a prior Office action.

Response to Arguments

Double Patenting

4. The rejection of claims 1, 3-6, 13, 20-23, 46-47, 50-57 on the ground of

nonstatutory obviousness-type double patenting as being unpatentable over claims 1-

15, 17-23 of copending Application No. 10/927,466 in view of Dobie et al., is withdrawn

in response to Applicant's cancellation of claims 1-23 in the copending application.

5. The objection of Claim 58 under 37 CFR 1.75 as being a substantial duplicate of

claim 13 is withdrawn in response to Applicant's amendment to claim 58.

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Claim Rejections - 35 USC § 102

6. The rejection of claim 1, 4-6, 20, and 63 under 35 U.S.C. 102(b) as being anticipated by Olek et al. (WO 2001077384 A2 (German), is withdrawn in response to Applicant's amendment to the claims requiring at least 95% complementarity with SEQ ID NO: 4.

Claim Rejections - 35 USC § 103

7. The rejection of claims 1, and 20-23 under 35 U.S.C. 103(a) as being unpatentable over Olek et al. in view of Bennett et al. (US Patent No. 5,968, 748) is withdrawn in response to Applicant's amendment.

Claim Rejections - 35 USC § 112

- 8. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 9. Claims 46-47, and 60 remain rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention, the prior rejection of these claims is withdrawn, and a new grounds for rejection is set forth below. It is noted that the rejection of claims 64-68 under 35 USC 112, 2nd, is withdrawn in response to Applicant's amendment.
- 10. Claim 46 and those claims dependent therefrom, claims 47 and 60 recite "the compound of claim 1, wherein said compound comprises the nucleobase sequence of SEQ ID NO: 19 and further comprises a ten deoxynucleotide region on both the 5' and 3' ends with at least five 2'-O-(2-methoxyethyl) nucleotides." The metes and bounds of

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this phrase are vague and indefinite since it is unclear if the recited additional to deoxynucleotides are intended to refer to the portion of the compound that comprises the nucleobase sequence of SEQ ID NO: 19, or if the ten additional deoxynucleotides are intended to be a separate sequence. The same question is posed in regards to the additional at least five 2'-O-(2-methoxyethyl) nucleotides that flanks the 10 deoxynucleotide region, is intended to be a part of the portion of the compound that comprises the nucleobase sequence of SEQ ID NO: 19, of if the additional nucleotides comprise a different sequence.

- 11. Claims 70-73 are also rejected for the same reasons that claims 46-47 and 60 are rejected. Again, claims 70 and 73 recite wherein the claimed compound *further comprises* a region of deoxynucleotides that are flanked by a region of 2'-O-(2-methoxyethyl) nucleotides. Again, the scope of the claimed compounds are uncertain since it is unclear if the region of deoxynucleotides and the region of the 2'-O-(2-methoxyethyl) nucleotides are intended to be encompassed within the range of nucleotides that consists of the nucleobase sequence of SEQ ID NO: 19 (a recited in claim 70), or that comprises an at least 8 consecutive nucleobase portion and is at least 95% complementary with SEQ ID NO: 4. The exact sequence composition of these additional deoxynucleotides and 2'-O-(2-methoxyethyl) nucleotides is uncertain.
- 12. Claims 4-7, 9, 20-23, and 68-69 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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13. Claim 4, and those claims dependent therefrom recites: "[T]he compound according to claim 1 comprising an oligonucleotide. " The metes and bounds of the claimed compound are vague and indefinite since it is unclear if the claimed compound is limited to wherein the compound is an oligonucleotide, or if the claimed compound further encompasses or further comprises an oligonucleotide of unknown sequence, structure or composition, including oligonucleotides comprising RNA, DNA, PNA, or etc., and combinations thereof. If the latter interpretation is correct then the scope of claim 4 fails to further limit claim 1.

Claim 5 recites wherein the oligonucleotide of claim 4 is a single-stranded oligonucleotide, Claim 6 recites the compound according to claim 4 in which the oligonucleotide is a DNA, and claim 7 recites wherein the oligonucleotide is a RNA oligonucleotide. As stated above. The metes and bounds of the single stranded oligonucleotide, DNA oligonucleotide or RNA oligonucleotide are vague and indefinite since it is unclear if the claims are intended to encompass wherein the compound as recited in claim 1 is limited to an oligonucleotide of DNA or RNA, or if the claims are intended to read on a compound according to claim 1 further comprising a DNA or RNA oligonucleotide. If the latter interpretation is correct then the scope of these claims fails to further limit claim 1 as well.

Moreover, claim 9 recites the compound of according to claim 7 wherein said compound is a short interfering RNA (siRNA) molecule, as stated in the rejection of claim 7, since the exact nature of claim 7 is uncertain the metes and bounds of claim 9 are uncertain as well. For example, it is unclear if the scope of claim 9 is intended to

read on an siRNA compound and further comprising an additional RNA oligonucleotide, or if the entire scope of the compound recited in claim 9 is intended to read on a single RNA oligonucleotide that functions as an siRNA (i.e. hairpin).

Claims 20-23 also fail to further limited claim 1, such that the scope of these claims are vague and indefinite to the extent that it is unclear if the recited modifications are intended to be a part of the original compound recited in claim 1, or if the recited modifications read beyond the scope of the original compound. For example, it is unclear if the recited modified nucleobases are intended to be a part of the compound of claim 1, or if they are intended to be an additional part of the claimed compound.

Claims 68-69 recite "the compound of claim 67, further comprising a region of deoxynucleotides flanked on both the 5' and the 3' ends of said region with at least one 2'-O-(2-methoxyethyl) nucleotide..". Again as stated above the exact structure of the additional deoxynucleotides and 2'-O-(2-methoxyethyl) nucleotides are uncertain. Applicants are requested to clarify if these additional structures are apart of the original compound recited in claim 50, of these additional regions read beyond the structure of the nucleic acid molecule recited in claim 50.

Conclusion

- Claims 1, 13, 50, 52-59, 61-62, and 66-67 are allowable. 14.
- Claims 4-7, 9, 20-23, 46-47, 60, and 68-73 are rejected for the reasons set forth 15. above.

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16. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Janet L. Epps-Ford whose telephone number is 571-272-0757. The examiner can normally be reached on M-F, 10:00 AM through 6:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Woitach can be reached on 571-272-0739. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Janet L. Epps-Ford/ Primary Examiner Art Unit 1633

JLE